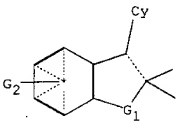
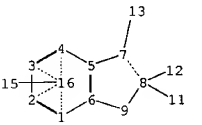
```
=> d his

     (FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

     FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
L1                STRUCTURE UPLOADED
L2              4 S L1
L3            119 S L2 FULL

     FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001
L4              6 S L3
L5              1 S L4 AND OHKAWA, S?/AU
L6              5 S L4 NOT L5

     FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001
L7                STRUCTURE UPLOADED
L8              0 S L7
L9            135 S L8 FULL

     FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001
L10             8 S L9
L11             2 S L10 NOT L4

     FILE 'CA' ENTERED AT 17:25:21 ON 14 MAR 2001
L12             8 S L9

     FILE 'CAOLD' ENTERED AT 17:25:37 ON 14 MAR 2001
L13             0 S L9

=>

---Logging off of STN---


=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.31     303.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -4.48

STN INTERNATIONAL LOGOFF AT 17:26:03 ON 14 MAR 2001
```

STN Structure : 9445193a.str





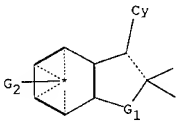
chain nodes :
13 15
ring nodes :
1 2 3 4 5 6 7 8 9
ring/chain nodes :
11 12
chain bonds :
7-13
ring/chain bonds :
8-12 8-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
5-7 6-9 7-8 7-13 8-9 8-12 8-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

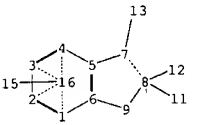
G1:O,S

G2:O,S

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
12:CLASS 13:Atom 15:CLASS 16:CLASS

STN Structure : 09445193.str





chain nodes :
13 15
ring nodes :
1 2 3 4 5 6 7 8 9
ring/chain nodes :
11 12
chain bonds :
7-13 8-12 8-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
5-7 6-9 7-8 7-13 8-9 8-12 8-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:O,S

G2:O,S

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
12:CLASS 13:Atom 15:CLASS 16:CLASS

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1612BXR
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Sep 29	The Philippines Inventory of Chemicals and Chemical Substances (PICCS) has been added to CHEMLIST
NEWS 3	Oct 27	New Extraction Code PAX now available in Derwent Files
NEWS 4	Oct 27	SET ABBREVIATIONS and SET PLURALS extended in Derwent World Patents Index files
NEWS 5	Oct 27	Patent Assignee Code Dictionary now available in Derwent Patent Files
NEWS 6	Oct 27	Plasdoc Key Serials Dictionary and Echoing added to Derwent Subscriber Files WPIDS and WPIX
NEWS 7	Nov 29	Derwent announces further increase in updates for DWPI
NEWS 8	Dec 5	French Multi-Disciplinary Database PASCAL Now on STN
NEWS 9	Dec 5	Trademarks on STN - New DEMAS and EUMAS Files
NEWS 10	Dec 15	2001 STN Pricing
NEWS 11	Dec 17	Merged CEABA-VTB for chemical engineering and biotechnology
NEWS 12	Dec 17	Corrosion Abstracts on STN
NEWS 13	Dec 17	SYNTHLINE from Prous Science now available on STN
NEWS 14	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS 15	Jan 05	AIDSLINE is being removed from STN
NEWS 16	Feb 06	Engineering Information Encompass files have new names
NEWS 17	Feb 16	TOXLINE no longer being updated

NEWS EXPRESS	FREE UPGRADE 5.0e FOR STN EXPRESS 5.0 WITH DISCOVER! (WINDOWS) NOW AVAILABLE
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 13 MAR 2001 HIGHEST RN 327020-77-9
DICTIONARY FILE UPDATES: 13 MAR 2001 HIGHEST RN 327020-77-9

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

Please note that search-term pricing does apply when conducting SmartSELECT searches.

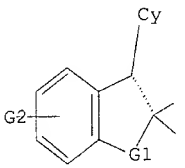
Structure search limits have been increased. See HELP SLIMIT for details.

=>
Uploading 09445193.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS
L1 STR



G1 O,S
G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 17:20:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1213 TO ITERATE

82.4% PROCESSED 1000 ITERATIONS 4 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 22172 TO 26348
PROJECTED ANSWERS: 4 TO 229

L2 4 SEA SSS SAM L1

=> s l2 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 133.25 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 17:20:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 23460 TO ITERATE

100.0% PROCESSED 23460 ITERATIONS 119 ANSWERS
SEARCH TIME: 00.00.04

L3 119 SEA SSS FUL L1

=> file ca

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	133.56	133.71

FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1967 - 8 Mar 2001 VOL 134 ISS 12
FILE LAST UPDATED: 8 Mar 2001 (20010308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CA on STN.

The CA Lexicon is now available in the Controlled Term (/CT) field.

Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> s l3

L4 6 L3

=> s l4 and ohkawa, s?/au

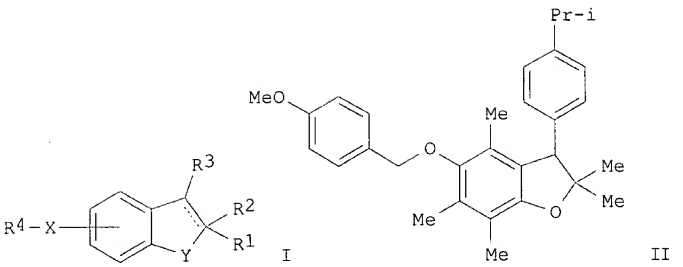
235 OHKAWA, S?/AU
L5 1 L4 AND OHKAWA, S?/AU

=> d l5, ibib abs hitstr, 1

L5 ANSWER 1 OF 1 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 130:38285 CA
TITLE: Benzofuran derivatives useful for suppressing neurodegeneration.
INVENTOR(S): **Ohkawa, Shigenori**; Setoh, Masaki; Kakihana, Mitsuru; Okura, Masahiro
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 132 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9855454	A2	19981210	WO 1998-JP2482	19980604
WO 9855454	A3	19990304		
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9875503	A1	19981221	AU 1998-75503	19980604
JP 11049765	A2	19990223	JP 1998-155709	19980604
EP 988289	A2	20000329	EP 1998-923128	19980604
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			JP 1997-148325	19970605
			WO 1998-JP2482	19980604

OTHER SOURCE(S): MARPAT 130:38285
GI

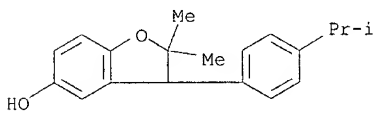


AB Title compds. I [R1, R2 = H, (un)substituted hydrocarbon group; or R1 and R2 form a 3- to 8-membered carbo- or heterocyclic ring which may be substituted; R3 = H, (un)substituted lower alkyl or arom. group; R4 = (un)substituted arom. or araliph. group, or acyl; X , Y = O or S which may be oxidized; benzene ring may be further substituted] and their salts are disclosed. The compds. suppress .beta.-amyloid toxicity, and are thus useful as agents for treating of preventing neurodegenerative diseases such as Alzheimer's disease or Parkinsonism. Prepns. of 33 compds. I and their intermediates are described. For instance, etherification of 3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-ol with 4-methoxybenzyl chloride using NaH in DMF gave 49% title compd. II. Seven example compds. gave 27.3-47.0% in vitro protection of human neuroblastoma SK-N-SH cells from .beta.-amyloid neurotoxicity.

IT **216989-52-5P**, 3-(4-Isopropylphenyl)-2,2-dimethyl-2,3-dihydrobenzofuran-5-ol **216989-53-6P**, 2,2,4,6,7-Pentamethyl-3-[4-(4-morpholinyl)phenyl]-2,3-dihydrobenzofuran-5-ol **216989-54-7P**, 2,2,4,6,7-Pentamethyl-3-[4-(4-methyl-1-piperazinyl)phenyl]-2,3-dihydrobenzofuran-5-ol **216989-63-8P**, 3-(4-Isopropylphenyl)-2,2-dimethyl-2,3-dihydrobenzofuran-6-ol **216989-72-9P**, 5-(2,4-Diaminophenoxy)-3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(intermediate; prepn. of benzofuran derivs. as agents for suppressing neurodegeneration)

RN 216989-52-5 CA

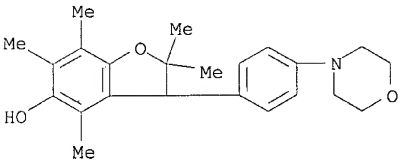
CN 5-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-[4-(1-methylethyl)phenyl]-(9CI) (CA INDEX NAME)



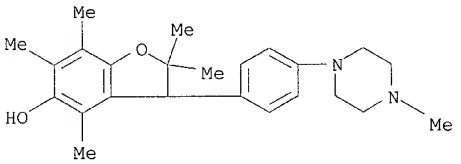
RN 216989-53-6 CA

CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(4-

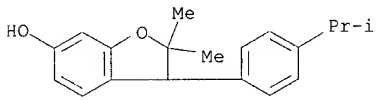
morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



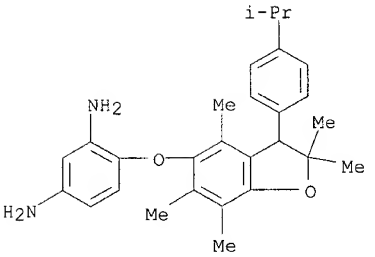
RN 216989-54-7 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(4-methyl-1-piperazinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 216989-63-8 CA
CN 6-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



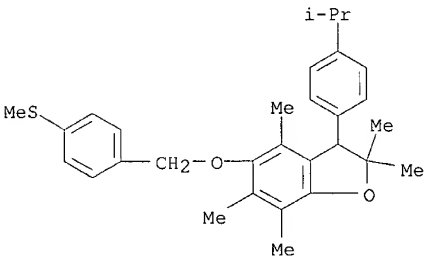
RN 216989-72-9 CA
CN 1,3-Benzenediamine, 4-[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]- (9CI) (CA INDEX NAME)



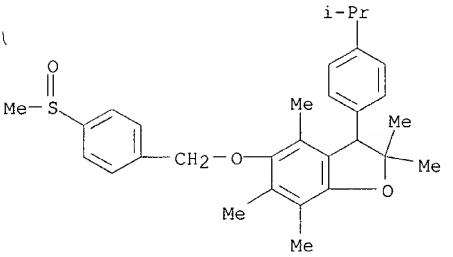
IT **216989-23-0P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[[4-(methylthio)benzyl]oxy]-2,3-dihydrobenzofuran **216989-24-1P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[[4-(methylsulfinyl)benzyl]oxy]-2,3-dihydrobenzofuran **216989-26-3P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(3-phenyl-2-propen-1-yl)oxy]-2,3-dihydrobenzofuran **216989-30-9P**, Methyl .alpha.-[[3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-yl]oxy]phenylacetate **216989-34-3P**,

3-(4-Isopropylphenyl)-5-[(2,4-dinitrophenyl)oxy]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant);
SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(product; prepn. of benzofuran derivs. as agents for suppressing neurodegeneration)

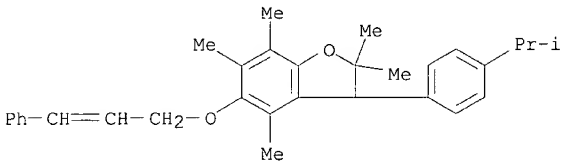
RN 216989-23-0 CA
CN Benzofuran, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-[[4-(methylthio)phenyl]methoxy]- (9CI) (CA INDEX NAME)



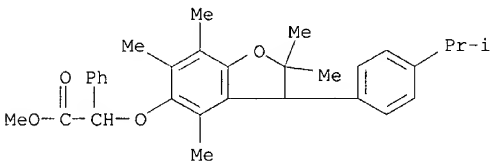
RN 216989-24-1 CA
CN Benzofuran, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-[[4-(methylsulfinyl)phenyl]methoxy]- (9CI) (CA INDEX NAME)



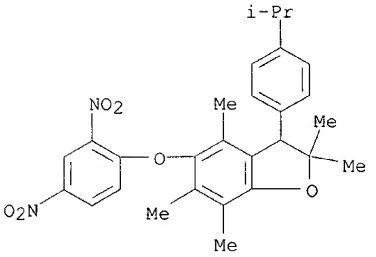
RN 216989-26-3 CA
CN Benzofuran,
2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-
5-[(3-phenyl-2-propenyl)oxy]- (9CI) (CA INDEX NAME)



RN 216989-30-9 CA
CN Benzeneacetic acid, .alpha.-[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-
methylethyl)phenyl]-5-benzofuranyl]oxy]-, methyl ester (9CI) (CA INDEX
NAME)



RN 216989-34-3 CA
CN Benzofuran,
5-(2,4-dinitrophenoxy)-2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-
(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)

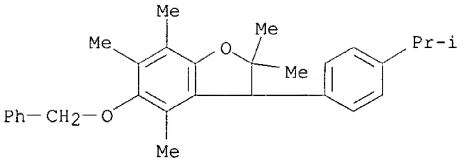


IT **216989-15-0P**, 5-(Benzyloxy)-3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-16-1P**, 5-(Benzyloxy)-3-[4-(dimethylamino)phenyl]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-18-3P**, 3-(4-Isopropylphenyl)-5-[(4-methoxybenzyl)oxy]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-19-4P**, 3-(4-Isopropylphenyl)-5-[(4-methoxybenzyl)oxy]-2,2-dimethyl-2,3-dihydrobenzofuran **216989-20-7P**,

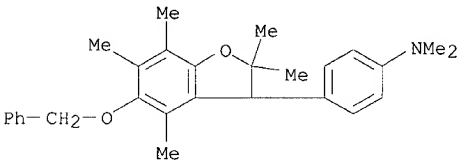
3-[4-(Dimethylamino)phenyl]-5-[(4-methoxybenzyl)oxy]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-21-8P**, 5-[(4-Methoxybenzyl)oxy]-3-[4-(4-morpholinyl)phenyl]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-22-9P**, 5-[(4-Methoxybenzyl)oxy]-2,2,4,6,7-pentamethyl-3-[4-(4-methyl-1-piperazinyl)phenyl]-2,3-dihydrobenzofuran **216989-25-2P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[[4-(methylsulfonyl)benzyl]oxy]-2,3-dihydrobenzofuran **216989-27-4P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-(2-quinolylmethoxy)-2,3-dihydrobenzofuran hydrochloride **216989-28-5P**, 5-[(3,3-Diphenylpropyl)oxy]-3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-29-6P**, Methyl 4-[[[3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-yl]oxy]methyl]benzoate **216989-31-0P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(2-pyridylmethyl)oxy]-2,3-dihydrobenzofuran **216989-32-1P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(3-pyridylmethyl)oxy]-2,3-dihydrobenzofuran **216989-33-2P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(4-pyridylmethyl)oxy]-2,3-dihydrobenzofuran **216989-35-4P**, 5-[[2,4-Bis(acetylamino)phenyl]oxy]-3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-36-5P** **216989-37-6P** **216989-38-7P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(3-phenylpropyl)oxy]-2,3-dihydrobenzofuran **216989-39-8P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(2-phenylethyl)oxy]-2,3-dihydrobenzofuran **216989-43-4P**, 3-(4-Isopropylphenyl)-6-[(4-methoxybenzyl)oxy]-2,2-dimethyl-2,3-dihydrobenzofuran
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(product; prepn. of benzofuran derivs. as agents for suppressing neurodegeneration)

RN 216989-15-0 CA

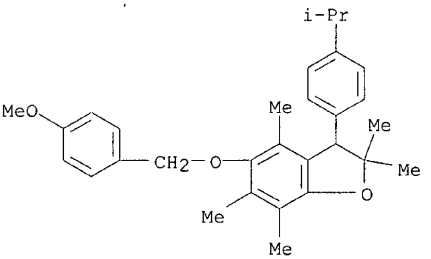
CN Benzofuran, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-(phenylmethoxy)- (9CI) (CA INDEX NAME)



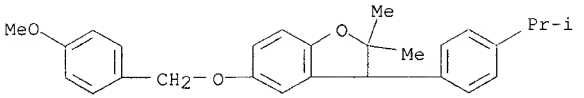
RN 216989-16-1 CA
CN Benzenamine, 4-[2,3-dihydro-2,2,4,6,7-pentamethyl-5-(phenylmethoxy)-3-benzofuranyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



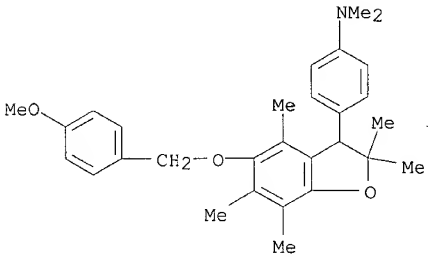
RN 216989-18-3 CA
CN Benzofuran,
2,3-dihydro-5-[(4-methoxyphenyl)methoxy]-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



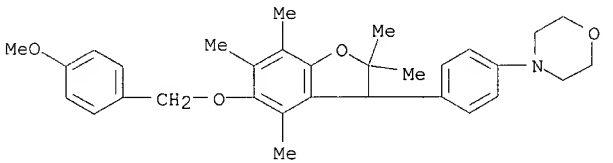
RN 216989-19-4 CA
CN Benzofuran,
2,3-dihydro-5-[(4-methoxyphenyl)methoxy]-2,2-dimethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



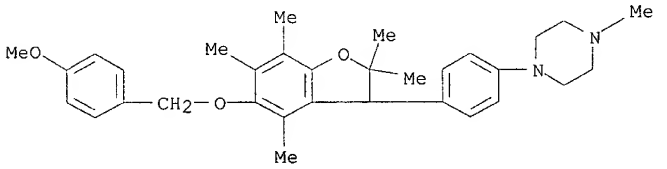
RN 216989-20-7 CA
CN Benzenamine, 4-[2,3-dihydro-5-[(4-methoxyphenyl)methoxy]-2,2,4,6,7-pentamethyl-3-benzofuranyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



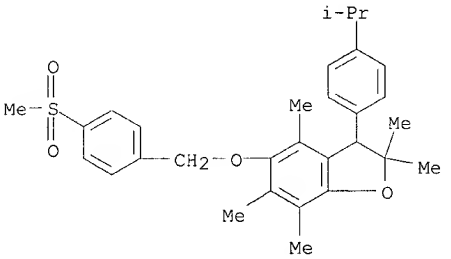
RN 216989-21-8 CA
CN Morpholine, 4-[4-[2,3-dihydro-5-[(4-methoxyphenyl)methoxy]-2,2,4,6,7-pentamethyl-3-benzofuranyl]phenyl]- (9CI) (CA INDEX NAME)



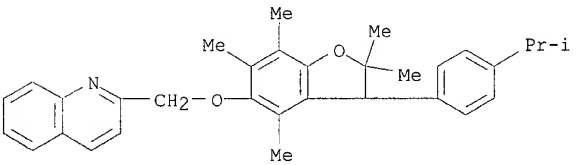
RN 216989-22-9 CA
CN Piperazine, 1-[4-[2,3-dihydro-5-[(4-methoxyphenyl)methoxy]-2,2,4,6,7-pentamethyl-3-benzofuranyl]phenyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 216989-25-2 CA
CN Benzofuran,
2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-
5-[[4-(methylsulfonyl)phenyl]methoxy]- (9CI) (CA INDEX NAME)

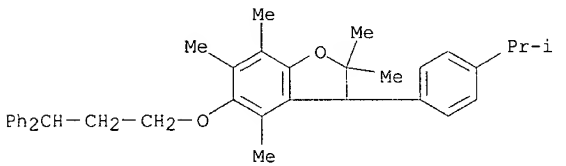


RN 216989-27-4 CA
CN Quinoline, 2-[[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]methyl]-, hydrochloride (9CI) (CA INDEX NAME)

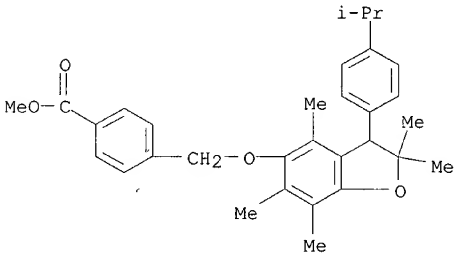


● HCl

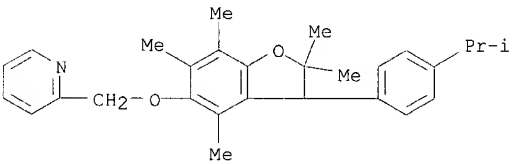
RN 216989-28-5 CA
CN Benzofuran,
5-(3,3-diphenylpropoxy)-2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



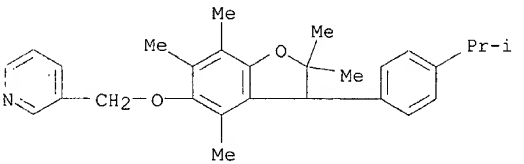
RN 216989-29-6 CA
CN Benzoic acid, 4-[[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



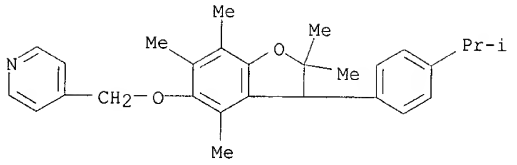
RN 216989-31-0 CA
CN Pyridine, 2-[[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]methyl]- (9CI) (CA INDEX NAME)



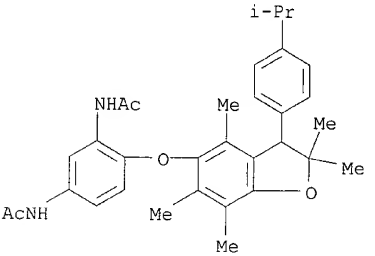
RN 216989-32-1 CA
CN Pyridine, 3-[[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]methyl]- (9CI) (CA INDEX NAME)



RN 216989-33-2 CA
CN Pyridine, 4-[[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]methyl]- (9CI) (CA INDEX NAME)

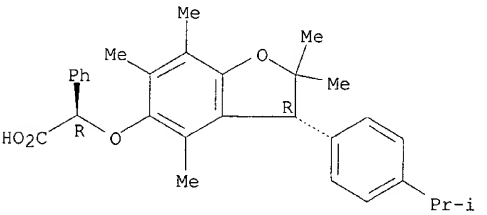


RN 216989-35-4 CA
CN Acetamide, N,N'-[4-[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]-1,3-phenylene]bis- (9CI) (CA INDEX NAME)



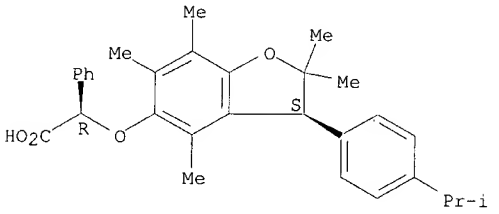
RN 216989-36-5 CA
CN Benzeneacetic acid,
.alpha.-[[(3R)-2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]-, (.alpha.R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

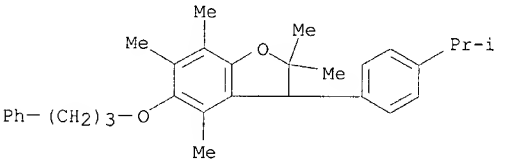


RN 216989-37-6 CA
CN Benzeneacetic acid,
.alpha.-[[(3R)-2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]-, (.alpha.S)-rel- (9CI) (CA INDEX NAME)

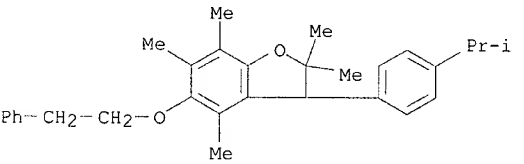
Relative stereochemistry.



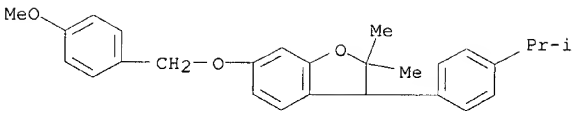
RN 216989-38-7 CA
CN Benzofuran,
2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-
5-(3-phenylpropoxy)- (9CI) (CA INDEX NAME)



RN 216989-39-8 CA
CN Benzofuran,
2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-
5-(2-phenylethoxy)- (9CI) (CA INDEX NAME)

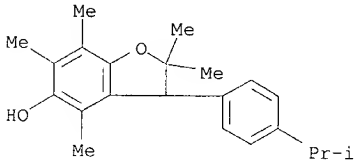


RN 216989-43-4 CA
CN Benzofuran,
2,3-dihydro-6-[(4-methoxyphenyl)methoxy]-2,2-dimethyl-3-[4-(1-
methylethyl)phenyl]- (9CI) (CA INDEX NAME)

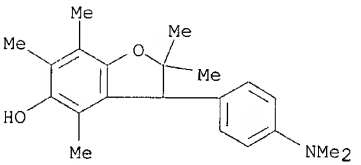


IT **116674-35-2**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-ol **116674-53-4**, 3-[4-(Dimethylamino)phenyl]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-ol
RL: RCT (Reactant)
(starting material; prepn. of benzofuran derivs. as agents for suppressing neurodegeneration)

RN 116674-35-2 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 116674-53-4 CA
CN 5-Benzofuranol, 3-[4-(dimethylamino)phenyl]-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



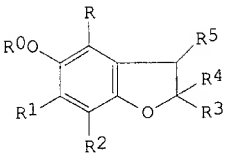
=> d his

(FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

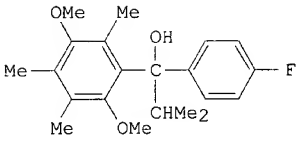
FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
L1 STRUCTURE UPLOADED
L2 4 S L1
L3 119 S L2 FULL

FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001

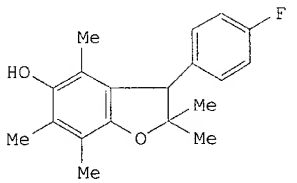
```
L4             6 S L3
L5             1 S L4 AND OHKAWA, S?/AU

=> s l4 not l5

L6             5 L4 NOT L5

=> d l6, ibib abs hitstr, 1-5


L6   ANSWER 1 OF 5  CA  COPYRIGHT 2001 ACS
ACCESSION NUMBER:         109:149335  CA
TITLE:                    Preparation of 5-hydroxycoumaran derivatives as
                          cardiovascular and antiallergy agents
INVENTOR(S):              Terao, Shinji; Maki, Yoshitaka
PATENT ASSIGNEE(S):       Takeda Chemical Industries, Ltd., Japan
SOURCE:                   Eur. Pat. Appl., 39 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.         KIND  DATE           APPLICATION NO.   DATE
     ---------------    ----  --------       ---------------   --------
     EP 273647          A1    19880706       EP 1987-311122    19871217
     EP 273647          B1    19920311
        R:  AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
     JP 01272578        A2    19891031       JP 1987-310346    19871207
     JP 08005871        B4    19960124
     AT 73448           E     19920315       AT 1987-311122    19871217
     DK 8706789         A     19880628       DK 1987-6789      19871222
     US 4857516         A     19890815       US 1987-136273    19871222
     HU 48609           A2    19890628       HU 1987-5988      19871223
     HU 206332          B     19921028
     AU 8783040         A1    19880630       AU 1987-83040     19871224
     AU 605818          B2    19910124
     CA 1325635         A1    19931228       CA 1987-555354    19871224
PRIORITY APPLN. INFO.:                       JP 1986-313380    19861227
                                             JP 1987-235491    19870918
                                             EP 1987-311122    19871217
OTHER SOURCE(S):          MARPAT 109:149335
GI
```



I



II



III

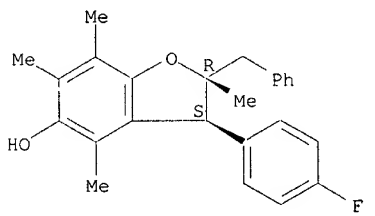
AB The title compds. [I; R = alkyl; R0 = H, acyl; R1-R4 = (un)substituted alkyl; R1R2 = CH:CHCH:CH; R3R4 = polymethylene; R5 = (un)substituted alkyl, aryl, heterocyclyl] were prepd. 4-FC6H4COCHMe2 (prepn. given) was added to 1-bromo-2,5-dimethoxy-3,4,6-trimethylbenzene in THF previously treated with BuLi and the mixt. stirred 1 h to give 92.3% diphenylpropanol
II which was refluxed 18 h in 47 wt.% aq. HBr to give 74.8% title compd. III. The latter, at 100 mg/kg orally gave 93% inhibition of the excitatory behavior induced by spinal intrathecal injection of FeCl2 soln.
in mice.

IT **116674-24-9P 116707-50-7P 116707-51-8P**
116707-52-9P 116707-53-0P 116707-54-1P
116707-55-2P 116707-56-3P 116707-57-4P
116707-58-5P 116707-59-6P 116707-60-9P
116707-61-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, in prepn. of cardiovascular and antiallergic agents)

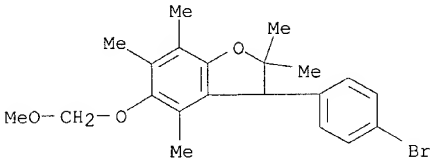
RN 116674-24-9 CA

CN 5-Benzofuranol, 3-(4-fluorophenyl)-2,3-dihydro-2,4,6,7-tetramethyl-2-(phenylmethyl)-, trans- (9CI) (CA INDEX NAME)

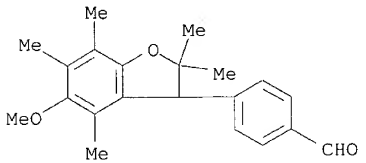
Relative stereochemistry.



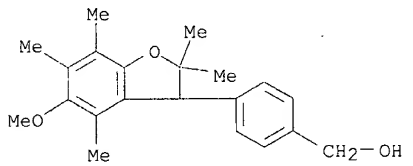
RN 116707-50-7 CA
CN Benzofuran, 3-(4-bromophenyl)-2,3-dihydro-5-(methoxymethoxy)-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



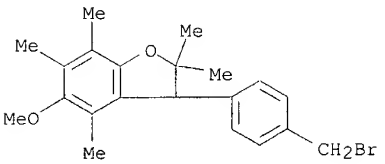
RN 116707-51-8 CA
CN Benzaldehyde, 4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



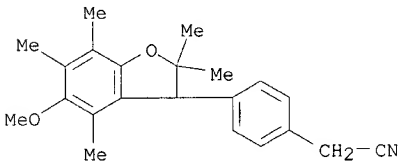
RN 116707-52-9 CA
CN Benzenemethanol, 4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



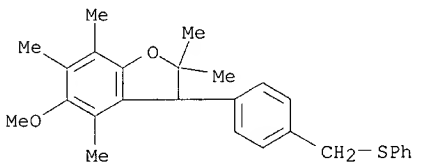
RN 116707-53-0 CA
CN Benzofuran, 3-[4-(bromomethyl)phenyl]-2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



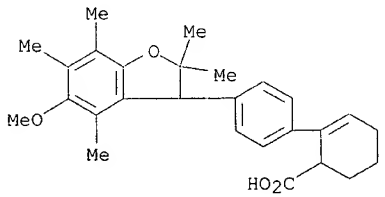
RN 116707-54-1 CA
CN Benzeneacetonitrile, 4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



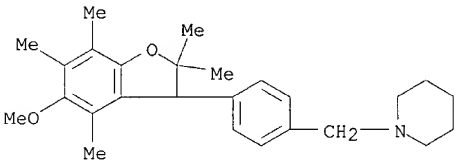
RN 116707-55-2 CA
CN Benzofuran, 2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-[4-[(phenylthio)methyl]phenyl]- (9CI) (CA INDEX NAME)



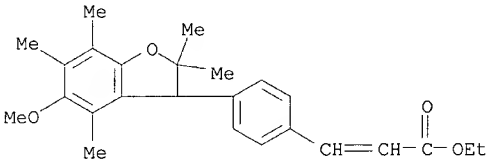
RN 116707-56-3 CA
CN 2-Cyclohexene-1-carboxylic acid, 2-[4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)phenyl]- (9CI) (CA INDEX NAME)



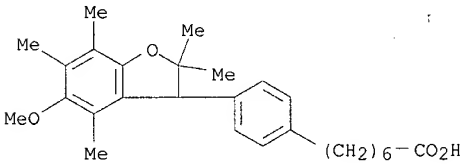
RN 116707-57-4 CA
CN Piperidine, 1-[[4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



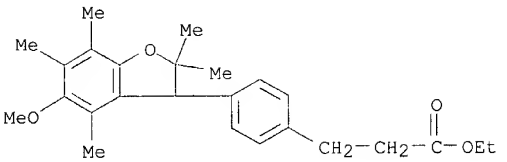
RN 116707-58-5 CA
CN 2-Propenoic acid, 3-[4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



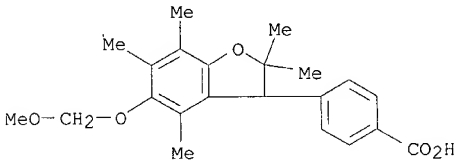
RN 116707-59-6 CA
CN Benzeneheptanoic acid, 4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



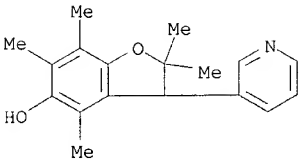
RN 116707-60-9 CA
CN Benzenepropanoic acid, 4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)-, ethyl ester (9CI) (CA INDEX NAME)



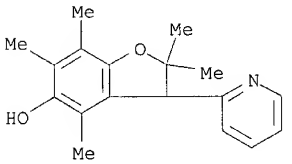
RN 116707-61-0 CA
CN Benzoic acid, 4-[2,3-dihydro-5-(methoxymethoxy)-2,2,4,6,7-pentamethyl-3-benzofuranyl]- (9CI) (CA INDEX NAME)



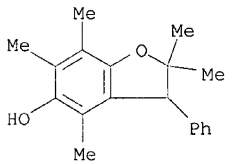
IT **116674-16-9P 116674-19-2P 116674-21-6P**
116674-22-7P 116674-23-8P 116674-26-1P
116674-28-3P 116674-29-4P 116674-30-7P
116674-31-8P 116674-32-9P 116674-33-0P
116674-34-1P 116674-35-2P 116674-36-3P
116674-37-4P 116674-38-5P 116674-39-6P
116674-40-9P 116674-41-0P 116674-42-1P
116674-43-2P 116674-44-3P 116674-45-4P
116674-46-5P 116674-47-6P 116674-48-7P
116674-49-8P 116674-50-1P 116674-51-2P
116674-52-3P 116674-53-4P 116674-54-5P
116674-55-6P 116674-56-7P 116674-57-8P
116674-58-9P 116674-59-0P 116674-60-3P
116674-61-4P 116674-62-5P 116674-63-6P
116674-64-7P 116674-65-8P 116674-66-9P
116706-84-4P 116706-85-5P 116706-86-6P
116706-87-7P 116706-88-8P 116706-89-9P
116706-90-2P 116706-91-3P 116728-40-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as cardiovascular and antiallergic agent)
RN 116674-16-9 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(3-pyridinyl)- (9CI) (CA INDEX NAME)



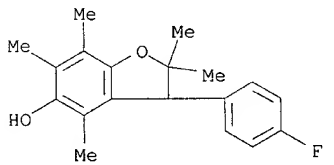
RN 116674-19-2 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 116674-21-6 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-phenyl- (9CI) (CA INDEX NAME)



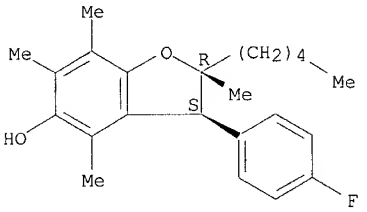
RN 116674-22-7 CA
CN 5-Benzofuranol, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



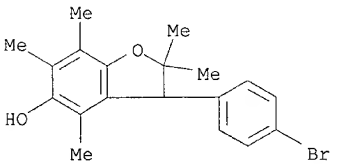
RN 116674-23-8 CA

CN 5-Benzofuranol, 3-(4-fluorophenyl)-2,3-dihydro-2,4,6,7-tetramethyl-2-pentyl-, trans- (9CI) (CA INDEX NAME)

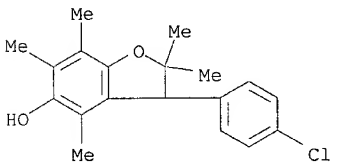
Relative stereochemistry.



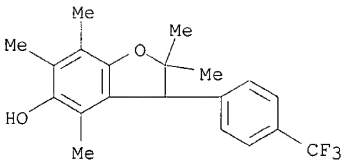
RN 116674-26-1 CA
CN 5-Benzofuranol, 3-(4-bromophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI)
(CA INDEX NAME)



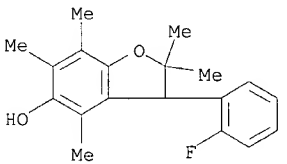
RN 116674-28-3 CA
CN 5-Benzofuranol, 3-(4-chlorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



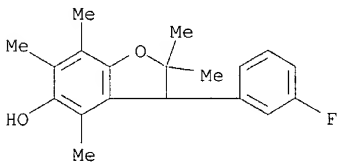
RN 116674-29-4 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



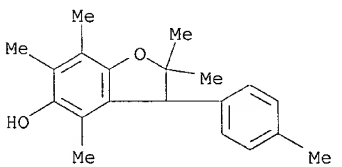
RN 116674-30-7 CA
CN 5-Benzofuranol, 3-(2-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)



RN 116674-31-8 CA
CN 5-Benzofuranol, 3-(3-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)

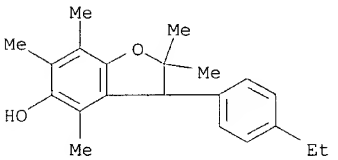


RN 116674-32-9 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(4-methylphenyl)-
(9CI) (CA INDEX NAME)

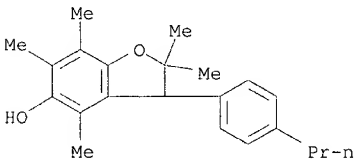


RN 116674-33-0 CA

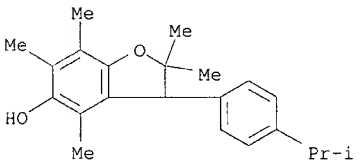
CN 5-Benzofuranol, 3-(4-ethylphenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-
(9CI)
(CA INDEX NAME)



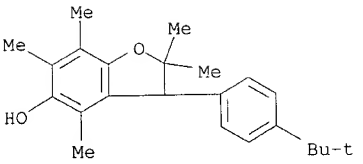
RN 116674-34-1 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(4-propylphenyl)-
(9CI) (CA INDEX NAME)



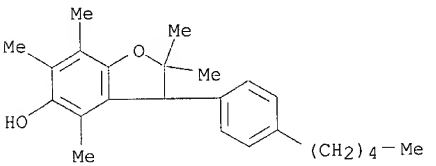
RN 116674-35-2 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-
methylethyl)phenyl]- (9CI) (CA INDEX NAME)



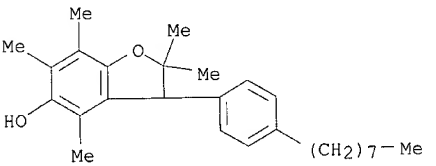
RN 116674-36-3 CA
CN 5-Benzofuranol, 3-[4-(1,1-dimethylethyl)phenyl]-2,3-dihydro-2,2,4,6,7-
pentamethyl- (9CI) (CA INDEX NAME)



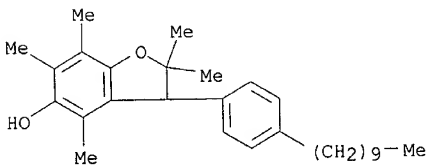
RN 116674-37-4 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(4-pentylphenyl)-(9CI) (CA INDEX NAME)



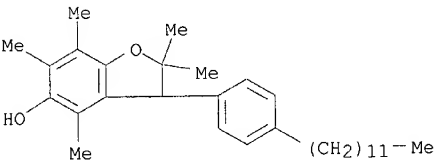
RN 116674-38-5 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(4-octylphenyl)-(9CI)
(CA INDEX NAME)



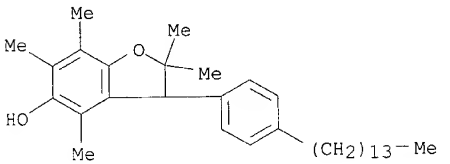
RN 116674-39-6 CA
CN 5-Benzofuranol, 3-(4-decylphenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-(9CI)
(CA INDEX NAME)



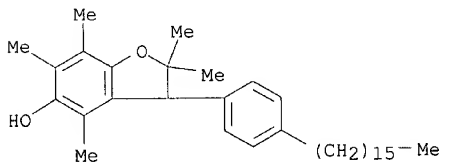
RN 116674-40-9 CA
CN 5-Benzofuranol, 3-(4-dodecylphenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



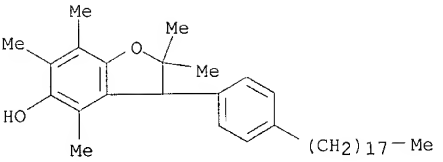
RN 116674-41-0 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(4-tetradecylphenyl)- (9CI) (CA INDEX NAME)



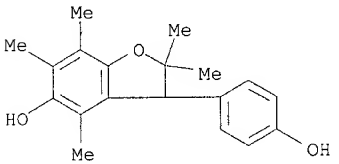
RN 116674-42-1 CA
CN 5-Benzofuranol, 3-(4-hexadecylphenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



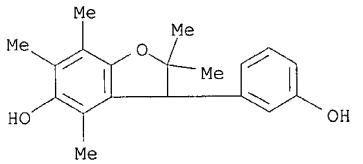
RN 116674-43-2 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(4-octadecylphenyl)- (9CI) (CA INDEX NAME)



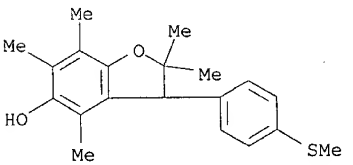
RN 116674-44-3 CA
CN 5-Benzofuranol, 2,3-dihydro-3-(4-hydroxyphenyl)-2,2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)



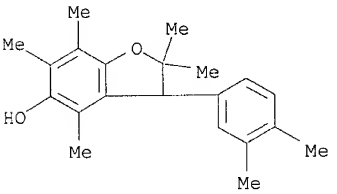
RN 116674-45-4 CA
CN 5-Benzofuranol, 2,3-dihydro-3-(3-hydroxyphenyl)-2,2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)



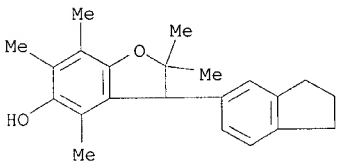
RN 116674-46-5 CA
CN 5-Benzofuranol,
2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(methylthio)phenyl]-
(9CI) (CA INDEX NAME)



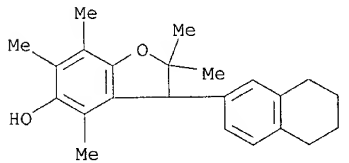
RN 116674-47-6 CA
CN 5-Benzofuranol, 3-(3,4-dimethylphenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



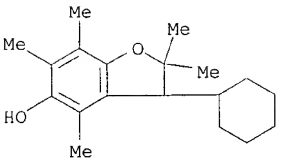
RN 116674-48-7 CA
CN 5-Benzofuranol, 3-(2,3-dihydro-1H-inden-5-yl)-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



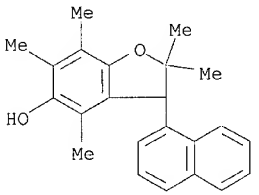
RN 116674-49-8 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(5,6,7,8-tetrahydro-2-naphthalenyl)- (9CI) (CA INDEX NAME)



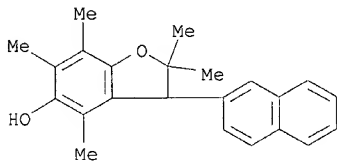
RN 116674-50-1 CA
CN 5-Benzofuranol, 3-cyclohexyl-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



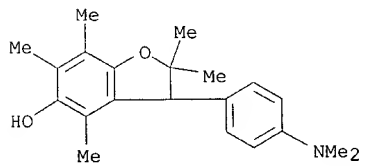
RN 116674-51-2 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(1-naphthalenyl)-(9CI) (CA INDEX NAME)



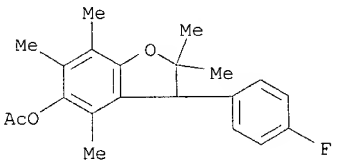
RN 116674-52-3 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(2-naphthalenyl)-(9CI) (CA INDEX NAME)



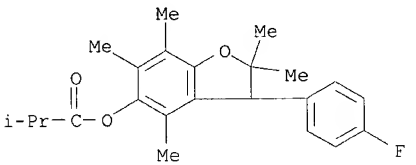
RN 116674-53-4 CA
CN 5-Benzofuranol, 3-[4-(dimethylamino)phenyl]-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



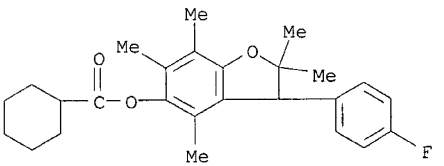
RN 116674-54-5 CA
CN 5-Benzofuranol, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-, acetate (9CI) (CA INDEX NAME)



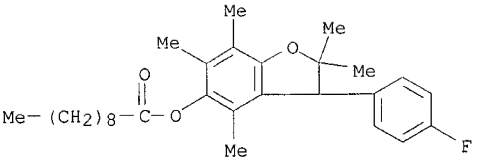
RN 116674-55-6 CA
CN Propanoic acid, 2-methyl-, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-5-benzofuranyl ester (9CI) (CA INDEX NAME)



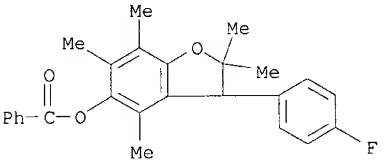
RN 116674-56-7 CA
CN Cyclohexanecarboxylic acid, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-5-benzofuranyl ester (9CI) (CA INDEX NAME)



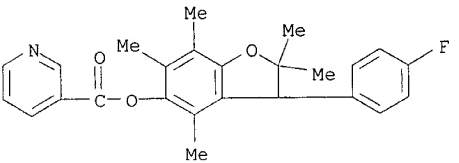
RN 116674-57-8 CA
CN Decanoic acid, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-5-benzofuranyl ester (9CI) (CA INDEX NAME)



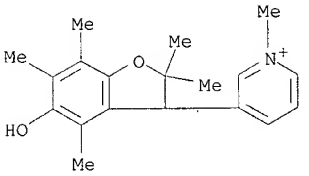
RN 116674-58-9 CA
CN 5-Benzofuranol, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-, benzoate (9CI) (CA INDEX NAME)



RN 116674-59-0 CA
CN 3-Pyridinecarboxylic acid, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-5-benzofuranyl ester (9CI) (CA INDEX NAME)

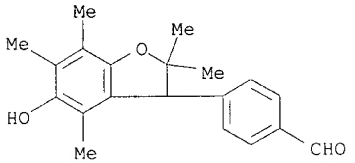


RN 116674-60-3 CA
CN Pyridinium, 3-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)-1-methyl-, iodide (9CI) (CA INDEX NAME)

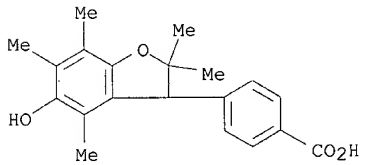


● I^-

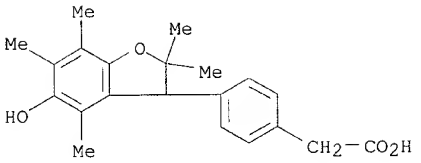
RN 116674-61-4 CA
CN Benzaldehyde, 4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



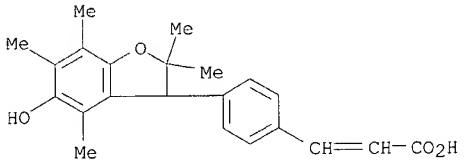
RN 116674-62-5 CA
CN Benzoic acid, 4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



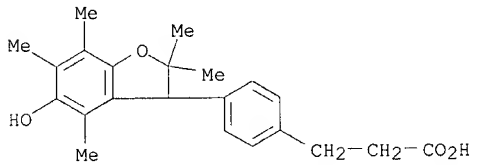
RN 116674-63-6 CA
CN Benzeneacetic acid, 4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



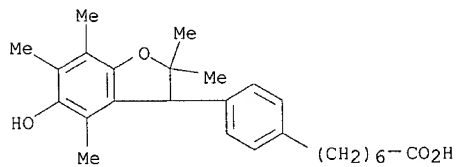
RN 116674-64-7 CA
CN 2-Propenoic acid, 3-[4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)phenyl]- (9CI) (CA INDEX NAME)



RN 116674-65-8 CA
CN Benzenepropanoic acid, 4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)

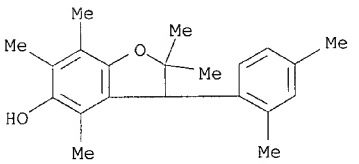


RN 116674-66-9 CA
CN Benzeneheptanoic acid, 4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)

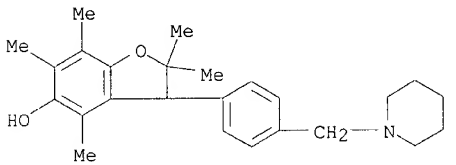


RN 116706-84-4 CA

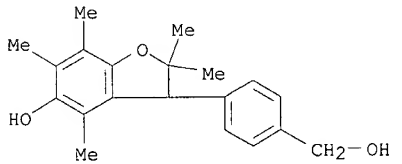
CN 5-Benzofuranol, 3-(2,4-dimethylphenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



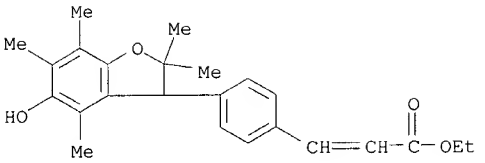
RN 116706-85-5 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-piperidinylmethyl)phenyl]- (9CI) (CA INDEX NAME)



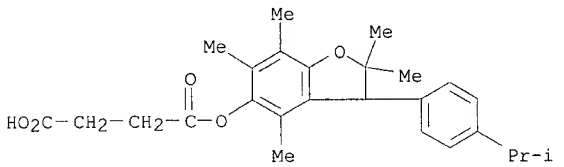
RN 116706-86-6 CA
CN 5-Benzofuranol, 2,3-dihydro-3-[4-(hydroxymethyl)phenyl]-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



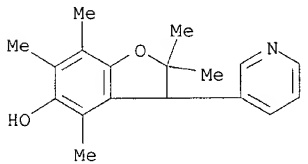
RN 116706-87-7 CA
CN 2-Propenoic acid, 3-[4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 116706-88-8 CA
CN Butanedioic acid, mono[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl] ester (9CI) (CA INDEX NAME)

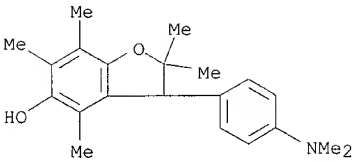


RN 116706-89-9 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(3-pyridinyl)-, hydrochloride (9CI) (CA INDEX NAME)



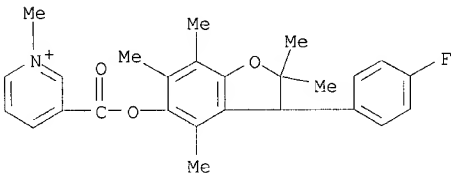
● HCl

RN 116706-90-2 CA
CN 5-Benzofuranol, 3-[4-(dimethylamino)phenyl]-2,3-dihydro-2,2,4,6,7-pentamethyl-, hydrochloride (9CI) (CA INDEX NAME)



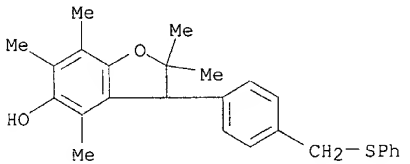
● HCl

RN 116706-91-3 CA
CN Pyridinium, 3-[[[3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-5-benzofuranyl]oxy]carbonyl]-1-methyl-, iodide (9CI) (CA INDEX NAME)



● I^-

RN 116728-40-6 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-[(phenylthio)methyl]phenyl]- (9CI) (CA INDEX NAME)

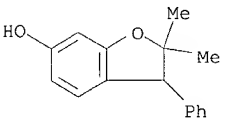


L6 ANSWER 2 OF 5 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 108:112209 CA
TITLE: A process for the preparation of 2,3-dihydrobenzofuran derivatives from resorcinol derivatives
INVENTOR(S): Takahashi, Katsuya; Hashimoto, Isao

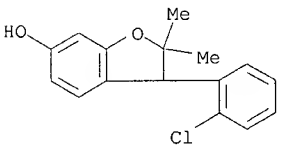
PATENT ASSIGNEE(S): Mitsui Petrochemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62138487	A2	19870622	JP 1985-279193	19851213
JP 04046273	B4	19920729		

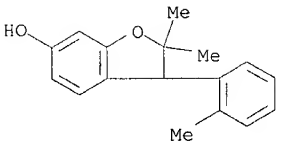
GI For diagram(s), see printed CA Issue.
AB The title compds. (I), useful as intermediates for agrochems., pharmaceuticals, and perfumes, are prepd. from 1,3-dihydroxybenzenes (II).
IT **113168-21-1P 113168-22-2P 113168-23-3P**
113168-24-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by cyclocondensation of resorcinol with ketone)
RN 113168-21-1 CA
CN 6-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-phenyl- (9CI) (CA INDEX NAME)



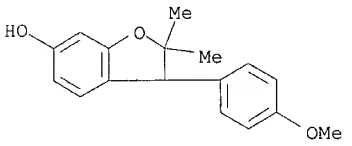
RN 113168-22-2 CA
CN 6-Benzofuranol, 3-(2-chlorophenyl)-2,3-dihydro-2,2-dimethyl- (9CI) (CA INDEX NAME)



RN 113168-23-3 CA
CN 6-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-(2-methylphenyl)- (9CI) (CA INDEX NAME)



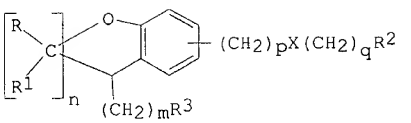
RN 113168-24-4 CA
CN 6-Benzofuranol, 2,3-dihydro-3-(4-methoxyphenyl)-2,2-dimethyl- (9CI) (CA INDEX NAME)



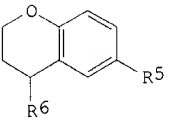
L6 ANSWER 3 OF 5 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 105:226586 CA
TITLE: Bicyclic benzoxy heterocyclic ethers and thioethers as
H2-receptor antagonists
INVENTOR(S): Kuhla, Donald Ernest; Campbell, Henry Flud; Studt, William Lyon; Neuenschwander, Kent William
PATENT ASSIGNEE(S): Rorer International (Overseas), Inc., USA
SOURCE: PCT Int. Appl., 79 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8602550	A1	19860509	WO 1985-US2080	19851022
W: AU, JP				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4612309	A	19860916	US 1984-664063	19841023
AU 8550688	A1	19860515	AU 1985-50688	19851022
AU 578199	B2	19881013		
EP 198918	A1	19861029	EP 1985-905731	19851022
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 62500593	T2	19870312	JP 1985-505036	19851022
US 4668673	A	19870526	US 1986-881122	19860702
US 4722925	A	19880202	US 1987-21147	19870303
US 4777168	A	19881011	US 1988-142084	19880107
PRIORITY APPLN. INFO.:			US 1984-664063	19841023
			WO 1985-US2080	19851022
			US 1986-881122	19860702

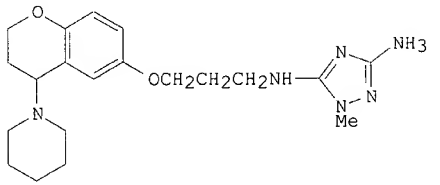
GI



I



II



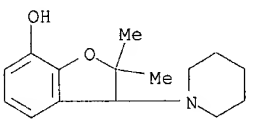
III

AB Title compds. I [R, R1 = H, alkyl; R2 = NHR4, amino, N-contg. heterocycle, amidino; R3 = amino, amidino; R4 = amidino, thiocarboxamidino, cyclobutendionyl, N- or N,S-contg. heterocycle; n = 1, 2; p = 0, 1; q = 2-4; m = 0-2; X = O, S, S(O), S(O)2], useful as H2-receptor antagonists (no data), are prepd. Thus, 6-methoxy-4-benzopyranone was hydrogenated to give benzopyran II (R5 = OMe, R6 = OH), which was mesylated and treated with piperidine to give II (R5 = OMe, R6 = piperidino). This was demethylated and alkylated to yield II (R5 = OCH2CH2CH2Br, R6 = piperidino), which was treated with NaN3 and reduced to form II (R5 = OCH2CH2CH2NH2, R6 = piperidino). This was cyclized with PhCH:NNMeC(:NCN)SMe to give benzopyranyloxypropylaminotriazole III.

IT **105329-74-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and alkylation of)

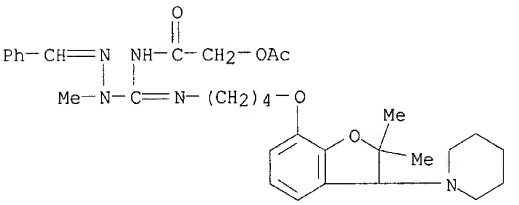
RN 105329-74-6 CA

CN 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)- (9CI) (CA INDEX NAME)

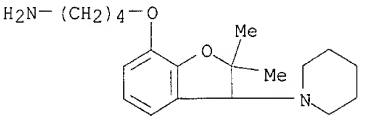


IT **105329-85-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

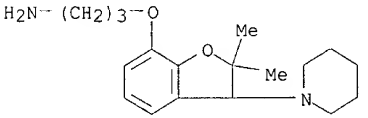
(prepn. and cyclization of)
RN 105329-85-9 CA
CN Acetamide, 2-(acetyloxy)-N-[[[4-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]butyl]amino][methyl(phenylmethylene)hydrazino]methylene]- (9CI) (CA INDEX NAME)



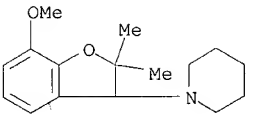
IT **105329-80-4P 105350-84-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclocondensation of, with carboximidothioic acid deriv.)
RN 105329-80-4 CA
CN 1-Butanamine, 4-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]- (9CI) (CA INDEX NAME)



RN 105350-84-3 CA
CN 1-Propanamine, 3-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]- (9CI) (CA INDEX NAME)

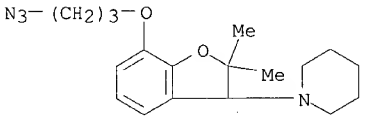


IT **105329-73-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and demethylation of)
RN 105329-73-5 CA
CN Piperidine, 1-(2,3-dihydro-7-methoxy-2,2-dimethyl-3-benzofuranyl)-, hydrochloride (9CI) (CA INDEX NAME)

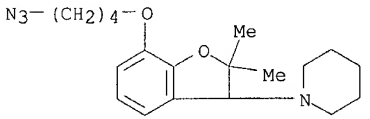


● HCl

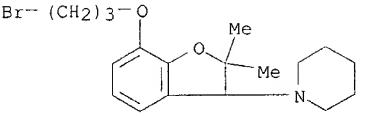
IT **105329-76-8P 105329-79-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydride redn. of)
RN 105329-76-8 CA
CN Piperidine,
1-[7-(3-azidopropoxy)-2,3-dihydro-2,2-dimethyl-3-benzofuranyl]-
(9CI) (CA INDEX NAME)



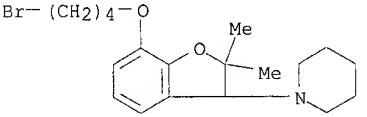
RN 105329-79-1 CA
CN Piperidine,
1-[7-(4-azidobutoxy)-2,3-dihydro-2,2-dimethyl-3-benzofuranyl]-
(9CI) (CA INDEX NAME)



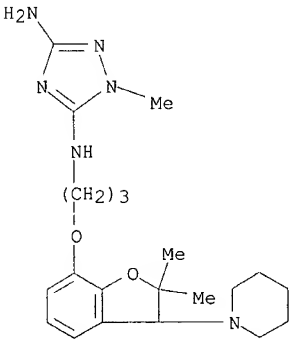
IT **105329-75-7P 105329-78-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, with azide)
RN 105329-75-7 CA
CN Piperidine,
1-[7-(3-bromopropoxy)-2,3-dihydro-2,2-dimethyl-3-benzofuranyl]-
(9CI) (CA INDEX NAME)



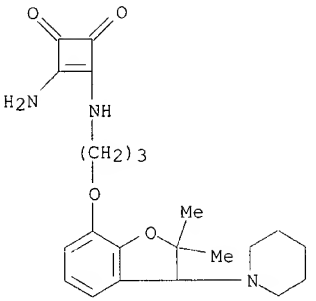
RN 105329-78-0 CA
CN Piperidine,
1-[7-(4-bromobutoxy)-2,3-dihydro-2,2-dimethyl-3-benzofuranyl]-
(9CI) (CA INDEX NAME)



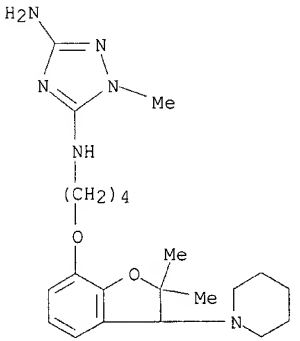
IT **105329-70-2P 105329-77-9P 105329-81-5P**
105329-82-6P 105329-83-7P 105329-84-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as H2 receptor antagonist for ulcer treatment)
RN 105329-70-2 CA
CN 1H-1,2,4-Triazole-3,5-diamine, N5-[3-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]propyl]-1-methyl- (9CI) (CA INDEX NAME)



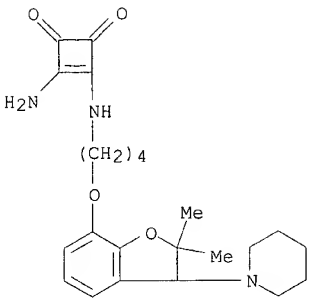
RN 105329-77-9 CA
CN 3-Cyclobutene-1,2-dione, 3-amino-4-[[3-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]propyl]amino]- (9CI) (CA INDEX NAME)



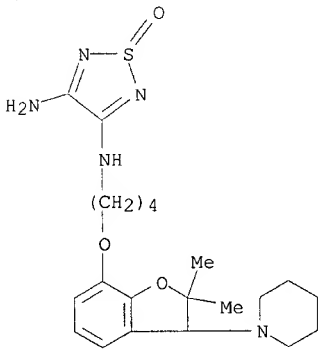
RN 105329-81-5 CA
CN 1H-1,2,4-Triazole-3,5-diamine, N5-[4-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]butyl]-1-methyl- (9CI) (CA INDEX NAME)



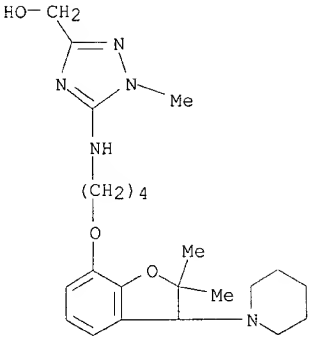
RN 105329-82-6 CA
CN 3-Cyclobutene-1,2-dione, 3-amino-4-[[4-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]butyl]amino]- (9CI) (CA INDEX NAME)



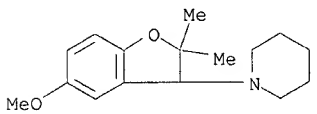
RN 105329-83-7 CA
CN 1,2,5-Thiadiazole-3,4-diamine, N-[4-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]butyl]-, 1-oxide (9CI) (CA INDEX NAME)



RN 105329-84-8 CA
CN 1H-1,2,4-Triazole-3-methanol, 5-[[4-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]butyl]amino]-1-methyl- (9CI) (CA INDEX NAME)



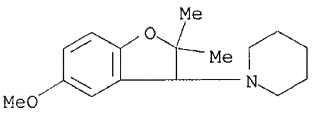
L6 ANSWER 4 OF 5 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 81:135855 CA
TITLE: Benzoheterocyclic derivatives. 15. Synthesis of benzofuran derivatives. 3
AUTHOR(S): Hirose, Noriyasu; Kuriyama, Shizuo; Sohda, Shigeru
CORPORATE SOURCE: Res. Lab., Eisai Co., Ltd., Tokyo, Japan
SOURCE: Yakugaku Zasshi (1974), 94(8), 905-12
CODEN: YKKZAJ
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
GI For diagram(s), see printed CA Issue.
AB 3-Substituted amino- or aminomethyl-2,3-dihydrobenzofurans I (R = OCH2CH2NMe2, substituted amino, substituted aminomethyl; R1 = H, Me) were prepd. Special emphasis was placed on the 5-position, which corresponds to the meta position of the phenethylamine skeleton. I (R = CN, R1 = Me) was obtained in a good yield by cyanation of I (R = Br, R1 = Me) with CuCN. The analgesic effect of these benzofuran derivs. was comparable to that of aminopyrine.
IT **53903-28-9P 53903-29-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 53903-28-9 CA
CN Piperidine, 1-(2,3-dihydro-5-methoxy-2,2-dimethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



RN 53903-29-0 CA
CN Piperidine, 1-(2,3-dihydro-5-methoxy-2,2-dimethyl-3-benzofuranyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

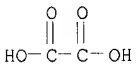
CM 1

CRN 53903-28-9
CMF C16 H23 N O2



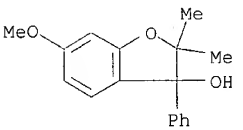
CM 2

CRN 144-62-7
CMF C2 H2 O4



L6 ANSWER 5 OF 5 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 75:63523 CA
TITLE: Photolysis of 2-(benzyloxy)-4-(dodecyloxy)benzophenone and 2-isopropoxy-4-methoxybenzophenone
AUTHOR(S): Lappin, Gerald R.; Zannucci, J. S.
CORPORATE SOURCE: Tennessee Eastman Co. Div., Eastman Kodak Co., Kingsport, Tenn., USA
SOURCE: J. Org. Chem. (1971), 36(13), 1808-11
CODEN: JOCEAH
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The photolysis of 2-(benzyloxy)-4-(dodecyloxy)benzophenone (I) or of 2-isopropoxy-4-methoxybenzophenone (II) proceeded mainly via ring closure between the carbonyl C and the .alpha. carbon of the 2 substituent to give 6-(dodecyloxy)-2,3-dihydro-2,3-diphenyl-3-benzofuranol (III) or 2,3-dihydro-2,2-dimethyl-6-methoxy-3-phenyl-3-benzofuranol (IV), resp. The quantum efficiencies for disappearance of starting ketone and for cyclization decreased significantly with an increase in solvent polarity. The lifetime of the excited state, believed to be 3(n, .pi.*), was about 3 .times. 10-8 sec, unusually short for a benzophenone. Further photolysis of I or III resulted in dehydration to give 6-(dodecyloxy)-2,3-diphenylbenzofuran (V) and partial cyclization of V to 11-(dodecyloxy)benzo[b]phenanthro[9,10-d] furan, but further photolysis of IV gave only 2-hydroxy-4-methoxybenzophenone. Both I and II gave the corresponding 4-alkoxy-2-hydroxybenzophenone as a minor product.

IT **28856-53-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 28856-53-3 CA
CN 3-Benzofuranol, 2,3-dihydro-6-methoxy-2,2-dimethyl-3-phenyl- (8CI) (CA INDEX NAME)



=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.66	160.37

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.36	-3.36

FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 13 MAR 2001 HIGHEST RN 327020-77-9
DICTIONARY FILE UPDATES: 13 MAR 2001 HIGHEST RN 327020-77-9

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

Please note that search-term pricing does apply when conducting SmartSELECT searches.

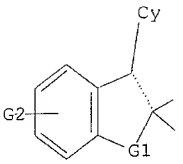
Structure search limits have been increased. See HELP SLIMIT for details.

=>
Uploading 9445193a.str

L7 STRUCTURE UPLOADED

=> d l7

L7 HAS NO ANSWERS
L7 STR



G1 O,S
G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l7

SAMPLE SEARCH INITIATED 17:24:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 7607 TO ITERATE

13.1% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 146921 TO 157359
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> s l8 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 133.25 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 17:24:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 152467 TO ITERATE

100.0% PROCESSED 152467 ITERATIONS 135 ANSWERS
SEARCH TIME: 00.00.12

L9 135 SEA SSS FUL L7

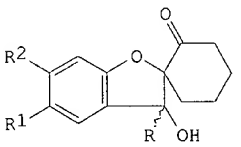
=> d his

(FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

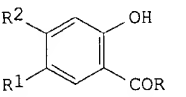
FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
L1 STRUCTURE UPLOADED
L2 4 S L1
L3 119 S L2 FULL

```
     FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001
L4             6 S L3
L5             1 S L4 AND OHKAWA, S?/AU
L6             5 S L4 NOT L5

     FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001
L7               STRUCTURE UPLOADED
L8             0 S L7
L9           135 S L8 FULL

=> file ca

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   133.87     294.24

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -3.36

FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1967 - 8 Mar 2001 VOL 134 ISS 12
FILE LAST UPDATED: 8 Mar 2001  (20010308/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

  This file supports REGlstRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
  more information.

Now you can extend your author, patent assignee, patent information,
and title searches back to 1907.  The records from 1907-1966 now have
this searchable data in CAOLD.  You now have electronic access to all
of CA: 1907 to 1966 in CAOLD and 1967 to the present in CA on STN.

The CA Lexicon is now available in the Controlled Term (/CT) field.
Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of
the American Chemical Society and is provided to assist you in
searching databases on STN.  Any dissemination, distribution, copying,
or storing of this information, without the prior written consent of
CAS, is strictly prohibited.

=> s l9
```

```
L10           8 L9

=> d his


     (FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

     FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
L1               STRUCTURE UPLOADED
L2             4 S L1
L3           119 S L2 FULL

     FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001
L4             6 S L3
L5             1 S L4 AND OHKAWA, S?/AU
L6             5 S L4 NOT L5

     FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001
L7               STRUCTURE UPLOADED
L8             0 S L7
L9           135 S L8 FULL

     FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001
L10            8 S L9

=> s l10 not l4

L11            2 L10 NOT L4

=> d l11, ibib abs hitstr, 1-2


L11  ANSWER 1 OF 2  CA  COPYRIGHT 2001 ACS
ACCESSION NUMBER:         119:270938  CA
TITLE:                    An expedient route to spirobenzofurans
AUTHOR(S):                Sumathi, T.; Balasubramanian, K. K.
CORPORATE SOURCE:         Dep. Chem., Indian Inst. Technol., Madras, 600 036,
                          India
SOURCE:                   Tetrahedron Lett. (1993), 34(24), 3915-8
                          CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 119:270938
GI
```



I



II

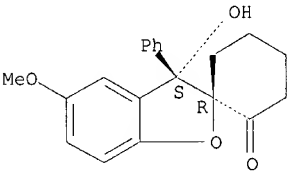
AB The synthesis of spirobenzofurans I (R = H, Me, Ph; R1 = H, Cl, Me, OMe; R2 = H, OMe) via base-mediated spiroannulation of arom. aldehydes and ketones II with 2-chlorocyclohexanone is reported.

IT **151424-49-6P 151424-50-9P 151424-51-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 151424-49-6 CA

CN Spiro[benzofuran-2(3H),1'-cyclohexan]-2'-one, 3-hydroxy-5-methoxy-3-phenyl-, cis- (9CI) (CA INDEX NAME)

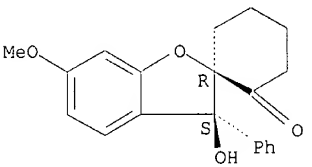
Relative stereochemistry.



RN 151424-50-9 CA

CN Spiro[benzofuran-2(3H),1'-cyclohexan]-2'-one, 3-hydroxy-6-methoxy-3-phenyl-, cis- (9CI) (CA INDEX NAME)

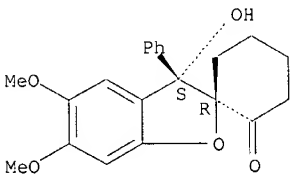
Relative stereochemistry.



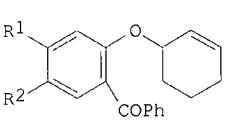
RN 151424-51-0 CA

CN Spiro[benzofuran-2(3H),1'-cyclohexan]-2'-one, 3-hydroxy-5,6-dimethoxy-3-phenyl-, cis- (9CI) (CA INDEX NAME)

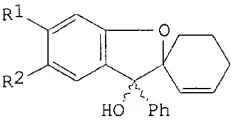
Relative stereochemistry.



L11 ANSWER 2 OF 2 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 117:26220 CA
TITLE: A photochemical entry to spirobenzofurans
AUTHOR(S): Sumathi, T.; Balasubramanian, K. K.
CORPORATE SOURCE: Dep. Chem., Indian Inst. Technol., Madras, 600 036, India
SOURCE: Tetrahedron Lett. (1992), 33(16), 2213-16
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 117:26220
GI



I



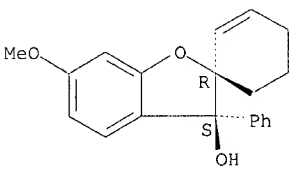
II

AB Synthesis of spirobenzofurans based on photochem. .delta. hydrogen abstraction is reported. Thus, irradn. in Et2O of (cyclohexenyloxy)benzophenones I (R1 = H, OMe; R2 = H, Cl, Me) gave a mixt. of diastereomeric spirobenzofuranols II.

IT **141883-82-1P 141883-83-2P 141883-84-3P**
141883-85-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

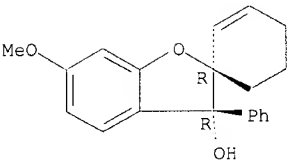
RN 141883-82-1 CA
CN Spiro[benzofuran-2(3H),1'-[2]cyclohexen]-3-ol, 6-methoxy-3-phenyl-, trans-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



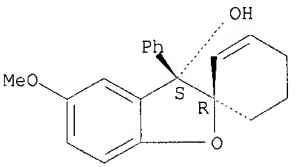
RN 141883-83-2 CA
CN Spiro[benzofuran-2(3H),1'-[2]cyclohexen]-3-ol, 6-methoxy-3-phenyl-, cis-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



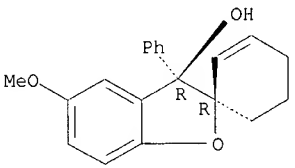
RN 141883-84-3 CA
CN Spiro[benzofuran-2(3H),1'-[2]cyclohexen]-3-ol, 5-methoxy-3-phenyl-, trans-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 141883-85-4 CA
CN Spiro[benzofuran-2(3H),1'-[2]cyclohexen]-3-ol, 5-methoxy-3-phenyl-, cis-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



=> file ca

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.29	302.53
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.12	-4.48

FILE 'CA' ENTERED AT 17:25:21 ON 14 MAR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1967 - 8 Mar 2001 VOL 134 ISS 12
FILE LAST UPDATED: 8 Mar 2001 (20010308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGlstRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CA on STN.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> d his

(FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
L1 STRUCTURE UPLOADED
L2 4 S L1
L3 119 S L2 FULL

FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001
L4 6 S L3
L5 1 S L4 AND OHKAWA, S?/AU
L6 5 S L4 NOT L5

FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001
L7 STRUCTURE UPLOADED
L8 0 S L7
L9 135 S L8 FULL

FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001

```
L10             8 S L9
L11             2 S L10 NOT L4

     FILE 'CA' ENTERED AT 17:25:21 ON 14 MAR 2001

=> s l9

L12             8 L9

=> file caold

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.31     302.84

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -4.48

FILE 'CAOLD' ENTERED AT 17:25:37 ON 14 MAR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966
FILE LAST UPDATED:  01 May 1997 (19970501/UP)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.  Title keywords, authors, patent
  assignees, and patent information, e.g., patent numbers, are
  now searchable from 1907-1966.  TIFF images of CA abstracts
  printed between 1907-1966 are available in the PAGE
  display formats.

  This file supports REGlstRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
  more information.

=> d his


     (FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

     FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
L1                STRUCTURE UPLOADED
L2              4 S L1
L3            119 S L2 FULL

     FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001
L4              6 S L3
L5              1 S L4 AND OHKAWA, S?/AU
L6              5 S L4 NOT L5

     FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001
L7                STRUCTURE UPLOADED
L8              0 S L7
```

```
L9          135 S L8 FULL

     FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001
L10           8 S L9
L11           2 S L10 NOT L4

     FILE 'CA' ENTERED AT 17:25:21 ON 14 MAR 2001
L12           8 S L9

     FILE 'CAOLD' ENTERED AT 17:25:37 ON 14 MAR 2001

=> s 19

L13           0 L9

=> d his


     (FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

     FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
L1              STRUCTURE UPLOADED
L2            4 S L1
L3          119 S L2 FULL

     FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001
L4            6 S L3
L5            1 S L4 AND OHKAWA, S?/AU
L6            5 S L4 NOT L5

     FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001
L7              STRUCTURE UPLOADED
L8            0 S L7
L9          135 S L8 FULL

     FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001
L10           8 S L9
L11           2 S L10 NOT L4

     FILE 'CA' ENTERED AT 17:25:21 ON 14 MAR 2001
L12           8 S L9

     FILE 'CAOLD' ENTERED AT 17:25:37 ON 14 MAR 2001
L13           0 S L9

=>

---Logging off of STN---


=>
Executing the logoff script...


=> LOG Y
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.31	303.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.48

STN INTERNATIONAL LOGOFF AT 17:26:03 ON 14 MAR 2001